

## CLAIMS

What is claimed is:

1. An ozone hemodiafiltration device comprising a dialysate fluid circuit,  
5 extracorporeal circuit for blood and a replenishing solute circuit, wherein said dialysate fluid circuit is used to provide aseptic isotonic solution into a dialyzer (artificial kidney); said extracorporeal circuit for blood draws blood flow from human blood vessels, passing through the dialyzer and then turns back to human bodies; said replenishing solute circuit conducts the isotonic solution through a  
10 filter for re-filtration so that the isotonic solution can be transported into the extracorporeal circuit for blood and enters human bodies for water supplement; the present invention is characterized in that an ozone (O<sub>3</sub>) generator is disposed on before the water inlet end of said dialysate fluid circuit for converting the reverse osmosis water into ozone water solution, which is mixed with the isotonic  
15 solution and inject into human bodies through said replenishing solute circuit and said extracorporeal circuit for blood in order to kill microorganisms such as bacteria, virus or cancer cells; the ozone in blood is at 3-6 ppm concentrations.
2. An ozone hemodiafiltration device as claimed in claim 1, wherein a monitor is  
20 disposed on the ozone water input end for monitoring ozone concentrations.